

CLAIMS

1. A power-saving effect displaying unit in an inverter that changes operation frequencies of a three-phase alternating current electric motor, comprising:
 - 5 a power-consumption computing unit that calculates power consumption based on an output voltage, which is calculated by an output-voltage computing unit using an output frequency and a bus voltage, and an output current of the inverter; and
 - a power-saving-effect generating unit that generates an
 - 10 instantaneous power-saving effect, at the time of inverter operation with respect to commercial operation, from electric characteristic data that result from a comparison of instantaneous power consumption at the time of inverter operation and power consumption at the time of commercial operation both calculated by the power-consumption
 - 15 computing unit.
2. The power-saving effect displaying unit in an inverter according to claim 1, wherein the power-saving-effect generating unit further calculates an integration of the power-saving effect to obtain an
- 20 integration value.
3. The power-saving effect displaying unit in an inverter according to claim 1, further comprising an arrangement that displays at least one of the power-saving effect and an integration value that is calculated by
- 25 integrating the power-saving effect obtained by the power-saving-effect

generating unit.

4. The power-saving effect displaying unit in an inverter according to claim 2, further comprising an arrangement that displays at least one of the power-saving effect and the integration value obtained by the power-saving-effect generating unit.

5. A power-saving effect displaying unit in an inverter that changes operation frequencies of a three-phase alternating current electric motor, comprising:

a power-consumption computing unit that calculates power consumption based on a voltage obtained by an output-voltage computing unit and a current obtained by a current detecting unit; and

a power-saving-effect generating unit that generates a power-saving effect based on the power consumption, wherein the power-saving effect that can be obtained under operation with an inverter with respect to commercial operation is displayed based on electric characteristic data that is obtained by comparing an instantaneous power consumption under the operation with the inverter and an instantaneous power consumption under commercial operation that are calculated by the power-consumption computing unit, and

the power-saving effect is calculated by multiplying a difference between an electric characteristic under general damper control and an electric characteristic under the operation with the inverter, representing electric characteristic data and resulting from the

comparison with power consumption under the commercial operation by a ratio between power consumption the operation with the inverter calculated every sampling period and the electric characteristic that represents power consumption at the time of general inverter operation.